

Title (en)

Actuator with energy recovery return.

Title (de)

Stellglied mit Rückführung durch Energierückgewinnung.

Title (fr)

Vérin à retour par récupération d'énergie.

Publication

**EP 0468548 A2 19920129 (EN)**

Application

**EP 91200820 A 19910409**

Priority

US 55737090 A 19900724

Abstract (en)

An electronically controlled actuator (13) which compresses a fluid thereby storing potential energy as it translates from a first to a second position is disclosed. The compressed fluid exerts a high force on the actuator (13) and the potential energy is recovered in returning the actuator (13) to the first position. A latching arrangement (23) automatically locks the actuator shaft (11) as it reaches the second position. The latching arrangement is selectively unlocked at the prescribed time to allow the stored potential energy to return the actuator (13) to the first position. <IMAGE>

IPC 1-7

**F01L 9/02**; **F01L 9/04**

IPC 8 full level

**F01B 25/08** (2006.01); **F01L 9/16** (2021.01); **F01L 9/20** (2021.01); **F02D 11/08** (2006.01); **F15B 11/06** (2006.01); **F15B 15/26** (2006.01)

CPC (source: EP US)

**F01L 9/16** (2021.01 - EP US); **F01L 9/20** (2021.01 - EP US); **Y10S 137/906** (2013.01 - EP US); **Y10T 137/86582** (2015.04 - EP US); **Y10T 137/86614** (2015.04 - EP US)

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**US 5022359 A 19910611**; CA 2040379 A1 19920125; DE 69120736 D1 19960814; DE 69120736 T2 19970123; EP 0468548 A2 19920129; EP 0468548 A3 19920422; EP 0468548 B1 19960710; JP H0719205 A 19950120

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